



User manual

KWH1MLCD

45A single module

Installation

This unit must be fitted by a qualified electrician in accordance with the current wiring regulations BS7671.

Technical data

Operating humidity	$\leq 75\%$
Storage humidity	$\leq 95\%$
Operating temperature	$-10^{\circ}\text{C} - +50^{\circ}\text{C}$
Storage temperature	$-30^{\circ}\text{C} - +70^{\circ}\text{C}$
International standard	IEC 62053-21
Accuracy class	1
Protection against penetration of dust and water	IP51
Insulating encased meter of protective class	II

Specifications:

Meter type	DRS-201D (LCD display)
Nominal voltage (Un)	230V AC
Operational voltage	161 - 300V AC
Insulation capabilities:	
- AC voltage withstand	2KV for 1 minute
- Impulse voltage withstand	6KV – 1.2 μ S waveform
Basic current (Ib)	5A
Maximum rated current (Imax)	45A
Operational current range	0.4% Ib- Imax
Over current withstand	30Imax for 0.01s
Operational frequency range	50Hz $\pm 10\%$
Internal power consumption	$\leq 2\text{W} / 10\text{VA}$
Test output flash rate (RED LED)	2000imp/kWh
Pulse output rate (pins 20 & 21)	2000imp/kWh
Consumption indicator (RED LED)	Flashing at load running

Basic errors:

0.05Ib	$\cos\phi = 1$	$\pm 1.5\%$
0.1Ib	$\cos\phi = 0.5\text{L}$	$\pm 1.5\%$
	$\cos\phi = 0.8\text{C}$	$\pm 1.5\%$
0.1Ib - Imax	$\cos\phi = 1$	$\pm 1.0\%$
0.2Ib - Imax	$\cos\phi = 0.5\text{L}$	$\pm 1.0\%$
	$\cos\phi = 0.8\text{C}$	$\pm 1.0\%$